

Polypropylene Biaxially Oriented Film

Abstract of the Disclosure

A method of making a polypropylene product for use in making films and preferably biaxially oriented films and more preferably biaxially oriented films wherein a tenter-frame processing line is employed. The method includes the addition of low concentrations of a nucleating system in a mini-random polypropylene that allows for better processability and improved tensile properties. In one embodiment the nucleating system comprises a blend of a monocarboxylic acid nucleating agent and dicarboxylic acid nucleating agent. The nucleating system is combined with the polypropylene material and the resultant hot melt blend is further processed into biaxially oriented film. Alternately, the hot melt blend is formed into a convenient raw material for later use in a biaxial oriented film production facility. The resulting films possess superior processing and material characteristics.